

ABSTRACT OF THE DISCLOSURE

In a semiconductor element comprising microcrystalline semiconductor, a semiconductor junction is provided within a microcrystal grain.

5 Further, in a semiconductor element comprising microcrystalline semiconductor, providing microcrystal grains of different grain diameters as a mixture to form a semiconductor layer. Thereby, discontinuity of a semiconductor junction is improved to improve the
10 characteristics, durability, and heat resisting properties of a semiconductor element. Distortion in a semiconductor layer is also reduced.